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13	42	(heartbeat\$5 (ping adj pong) (control adj	USPĀT;	2004/08/04 17:42
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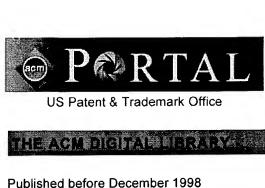
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1 Paradigms for process interaction in distributed programs

Gregory R. Andrews

March 1991 ACM Computing Surveys (CSUR), Volume 23 Issue 1

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Distributed computations are concurrent programs in which processes communicate by message passing. Such programs typically execute on network architectures such as networks of workstations or distributed memory parallel machines (i.e., multicomputers such as hypercubes). Several paradigms-examples or models-for process interaction in distributed computations are described. These include networks of filters, clients, and servers, heartbeat algorithms, probe/echo algorithms, broa ...

Keywords: clients and servers, distributed and parallel algorithms, distributed programming, distributed programming methods, heartbeat algorithms, networks of filters, patterns for interprocess communication, probe/echo algorithms, replicated servers, tokenpassing algorithms

2 Log-based receiver-reliable multicast for distributed interactive simulation Hugh W. Holbrook, Sandeep K. Singhal, David R. Cheriton

October 1995 ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication, Volume 25 Issue 4

Full text available: pdf(1.44 MB)

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Reliable multicast communication is important in large-scale distributed applications. For example, reliable multicast is used to transmit terrain and environmental updates in distributed simulations. To date, proposed protocols have not supported these applications' requirements, which include wide-area data distribution, low-latency packet loss detection and recovery, and minimal data and management over-head within fine-grained multicast groups, each containing a single data source. In this pa ...

3 Efficient data consistency in HLA/DIS++

Sudhir Srinivasan

November 1996 Proceedings of the 28th conference on Winter simulation

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4	Automated packet trace analysis of TCP implementations	
	Vern Paxson October 1997 ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies, architectures, and protocols for computer communication, Volume 27 Issue 4	
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	We describe topanaly, a tool for automatically analyzing a TCP implementation's behavior by inspecting packet traces of the TCP's activity. Doing so requires surmounting a number of hurdles, including detecting packet filter measurement errors, coping with ambiguities due to the distance between the measurement point and the TCP, and accommodating a surprisingly large range of behavior among different TCP implementations. We discuss why our efforts to develop a fully general tool failed, and det	
5	An extensible probe architecture for network protocol performance measurement G. Robert Malan, Farnam Jahanian October 1998 ACM SIGCOMM Computer Communication Review, Proceedings of the ACM SIGCOMM '98 conference on Applications, technologies, architectures, and protocols for computer communication, Volume 28 Issue 4 Additional Information: full citation, abstract, references, citings, index	
	Full text available: pdf(1.83 MB) Additional information: full citation, abstract, references, citings, index	
	This paper describes the architecture and implementation of Windmill, a passive network protocol performance measurement tool. Windmill enables experimenters to measure a broad range of protocol performance metrics by both reconstructing application-level network protocols and exposing the underlying protocol layers' events. Windmill is split into three functional components: a dynamically compiled Windmill Protocol Filter (WPF), a set of abstract protocol modules, and an extensible experiment e	
	Keywords: online analysis, packet filter, passive measurement, protocol performance	
6	Several secure store and forward devices David M. Goldschlag January 1996 Proceedings of the 3rd ACM conference on Computer and communications security	
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8	Performance and dependability evaluation of scalable massively parallel computer systems with conjoint simulation	
	Axel Hein, Mario Dal Cin October 1998 ACM Transactions on Modeling and Computer Simulation (TOMACS), Volume 8 Issue 4	

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	Computer systems are becoming more and more a part of our daily life; business and industry rely on their service, and the health of human beings depends on their correct functioning. Computer systems used for critical tasks have to be carefully designed and tested during the early design stage, the prototype phase, and their operational life. Methods and tools are required to support and facilitate this vital task. In this article, we tackle the issue of system-level performance and depen
	Keywords : fault-tolerant and large-scale computer systems, hierarchical model design, object-oriented modeling, process-based simulation, timed Petri nets
9	A reliable multicast framework for light-weight sessions and application level framing Sally Floyd, Van Jacobson, Ching-Gung Liu, Steven McCanne, Lixia Zhang December 1997 IEEE/ACM Transactions on Networking (TON), Volume 5 Issue 6
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11 Constructive and virtual model linkage

David R. Pratt, Matthew A. Johnson

December 1995 Proceedings of the 27th conference on Winter simulation

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12 A reliable multicast framework for light-weight sessions and application level framing Sally Floyd, Van Jacobson, Steve McCanne, Ching-Gung Liu, Lixia Zhang October 1995 ACM SIGCOMM Computer Communication Review, Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication, Volume 25 Issue 4

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This paper describes SRM (Scalable Reliable Multicast), a reliable multicast framework for application level framing and light-weight sessions. The algorithms of this framework are efficient, robust, and scale well to both very large networks and very large sessions. The framework has been prototyped in wb, a distributed whiteboard application, and has been extensively tested on a global scale with sessions ranging from a few to more than 1000 participants. The paper describes the principles tha ...

13 Transparent fault tolerance for distributed Ada applications Mark A. Breland, Steven A. Rogers, Guillaume P. Brat, Kenneth L. Nelson November 1994 Proceedings of the conference on TRI-Ada '94

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terms The advent of open architectures and initiatives in massively parallel supercomputing, combined with the maturation of distributed processing methods and algorithms, has enabled the implementation of responsive software-based fault tolerance. Expanding capabilities of distributed Ada runtime environments further stimulate the incorporation of hardware fault tolerance into critical, realtime embedded systems. Through the integration of proven Ada program component distribution and virtually ... 14 The first embedded distributed Ada95 application Patrick Rogers, Marc Pitarys November 1995 Proceedings of the conference on TRI-Ada '95: Ada's role in global markets: solutions for a changing complex world Additional Information: full citation, references, citings Full text available: pdf(1.22 MB) 15 On the implementation and use of Ada on fault-tolerant distributed systems John C. Knight, John I. A. Urquhart November 1984 ACM SIGAda Ada Letters, Volume IV Issue 3 Full text available: pdf(974.93 KB) Additional Information: full citation, references 16 Paradigms 1: Using events to build large scale distributed applications Richard Hayton, Jean Bacon, John Bates, Ken Moody September 1996 Proceedings of the 7th workshop on ACM SIGOPS European workshop: Systems support for worldwide applications Full text available: pdf(680.33 KB) Additional Information: full citation, abstract, references, citings We have extended an Interface Definition Language to handle event registration and notification. Clients register interest in specified classes of events, and servers then notify them of any occurrence asynchronously. Event occurrences are identified by parameters which conform to IDL typing constraints and can therefore be used in synchronous method invocations. Methods to handle registration and notification are generic and can be inherited by objects of any class: as a by-product of IDL proce ... 17 JLINK—Janus fast movers William J. Caldwell, Ralph Wood, Maria C. Pate December 1995 Proceedings of the 27th conference on Winter simulation Full text available: pdf(637.27 KB) Additional Information: full citation, references, index terms 18 Recovery in the Calypso file system Murthy Devarakonda, Bill Kish, Ajay Mohindra August 1996 ACM Transactions on Computer Systems (TOCS), Volume 14 Issue 3 Additional Information: full citation, abstract, references, citings, index Full text available: pdf(318.88 KB) terms, review This article presents the deign and implementation of the recovery scheme in Calypso. Calypso is a cluster-optimized, distributed file system for UNIX clusters. As in Sprite and AFS, Calypso servers are stateful and scale well to a large number of clients. The recovery

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scheme in Calypso is nondisruptive, meaning that open files remain open, client modified data are saved, and in-flight operations are properly handled across server recover. The

scheme uses distributed state amount the client ...

Keywords: Calypso, cluster systems, distributed state, state reconstruction

19 System support for object groups

Rachid Guerraoui, Pascal Felber, Benoît Garbinato, Karim Mazouni

October 1998 ACM SIGPLAN Notices, Proceedings of the 13th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications, Volume 33 Issue 10

Full text available: pdf(2.12 MB)

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This paper draws several observations from our experiences in building support for object groups. These observations actually go beyond our experiences and may apply to many other developments of object based distributed systems. Our first experience aimed at building support for Smalltalk object replication using the Isis process group toolkit. It was quite easy to achieve group transparency but we were confronted with a strong mismatch between the rigidity of the process group model and the fle ...

20 WELD—an environment for Web-based electronic design

Francis L. Chan, Mark D. Spiller, A. Richard Newton

May 1998 Proceedings of the 35th annual conference on Design automation - Volume 00

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Increasing size and geographical separation of design data and teams has created a need for a network-based electronic design environment that is scaleable, adaptable, secure, highly available, and cost effective. In the WELD project we are evaluating aspects of the network integration and communication infrastructure needed to enable such a distributed design environment. The architecture of WELD and the components developed to implement

the system, together with performance result ...

Keywords: high-level synthesis, telecommunication

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